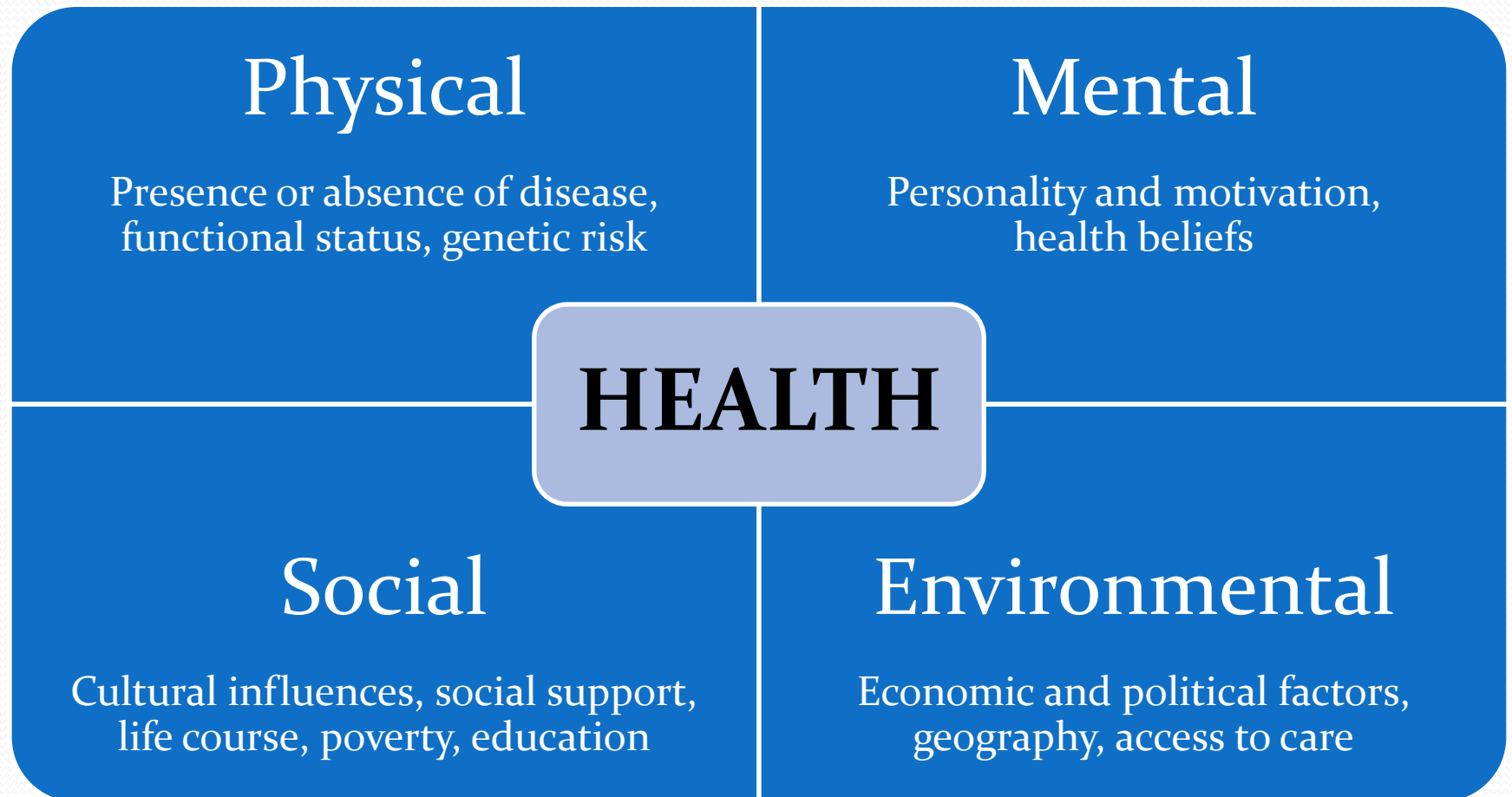


South Carolina Birth Outcomes Initiative Health Disparities Workgroup

Defining the scope of the problem
and identifying promising practices
to reduce racial disparities
in the rates of low birth weight

What is health?



IOM, 1999; Worthman, 1999, Gebbie 2003

What is a disparity?

Difference refers to a lack of identity or a degree of unlikeness



Disparity implies inequality, often where a greater equality might reasonably be expected

Rate of very LBW in SC Resident Births, 2009

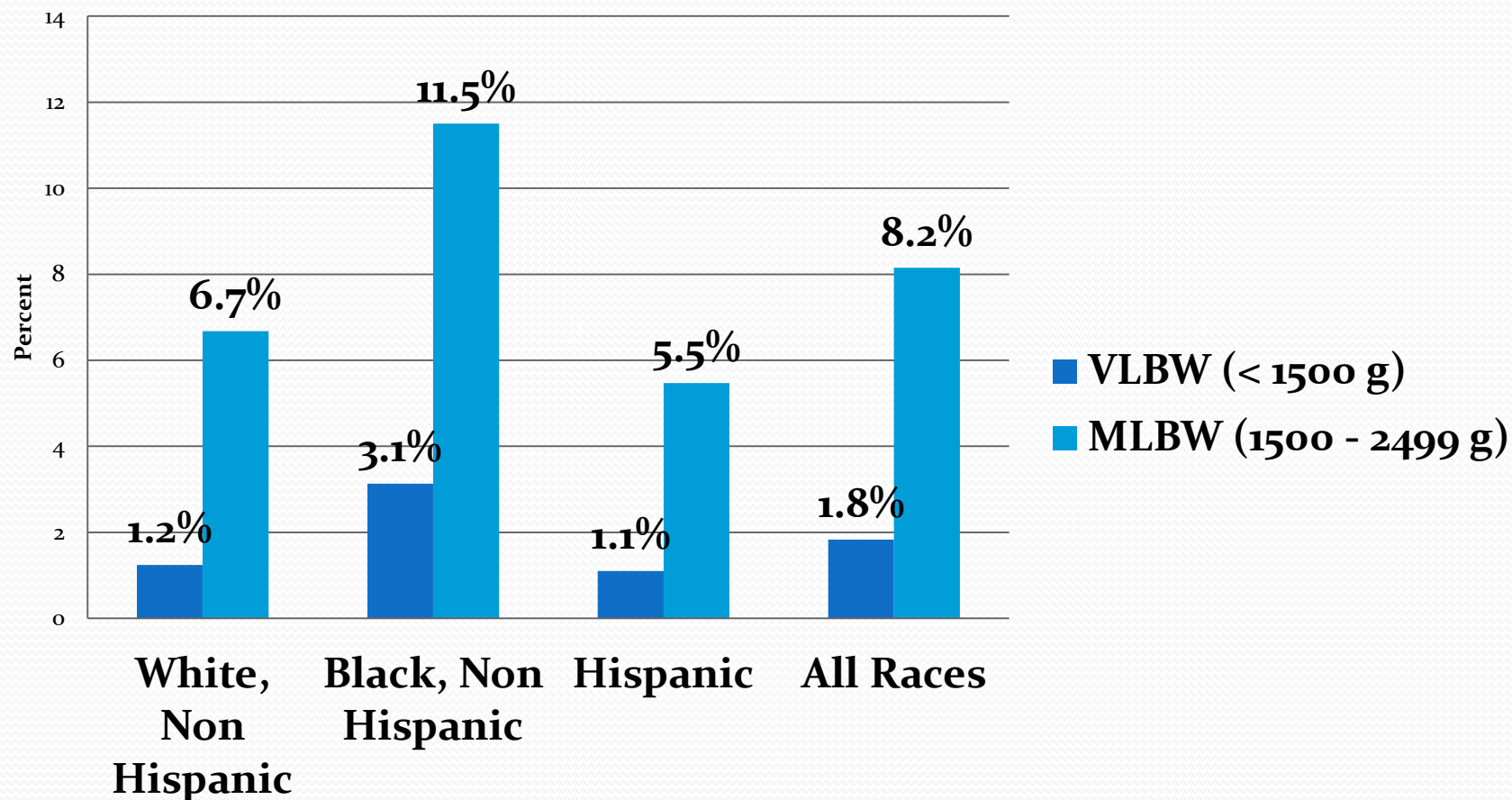
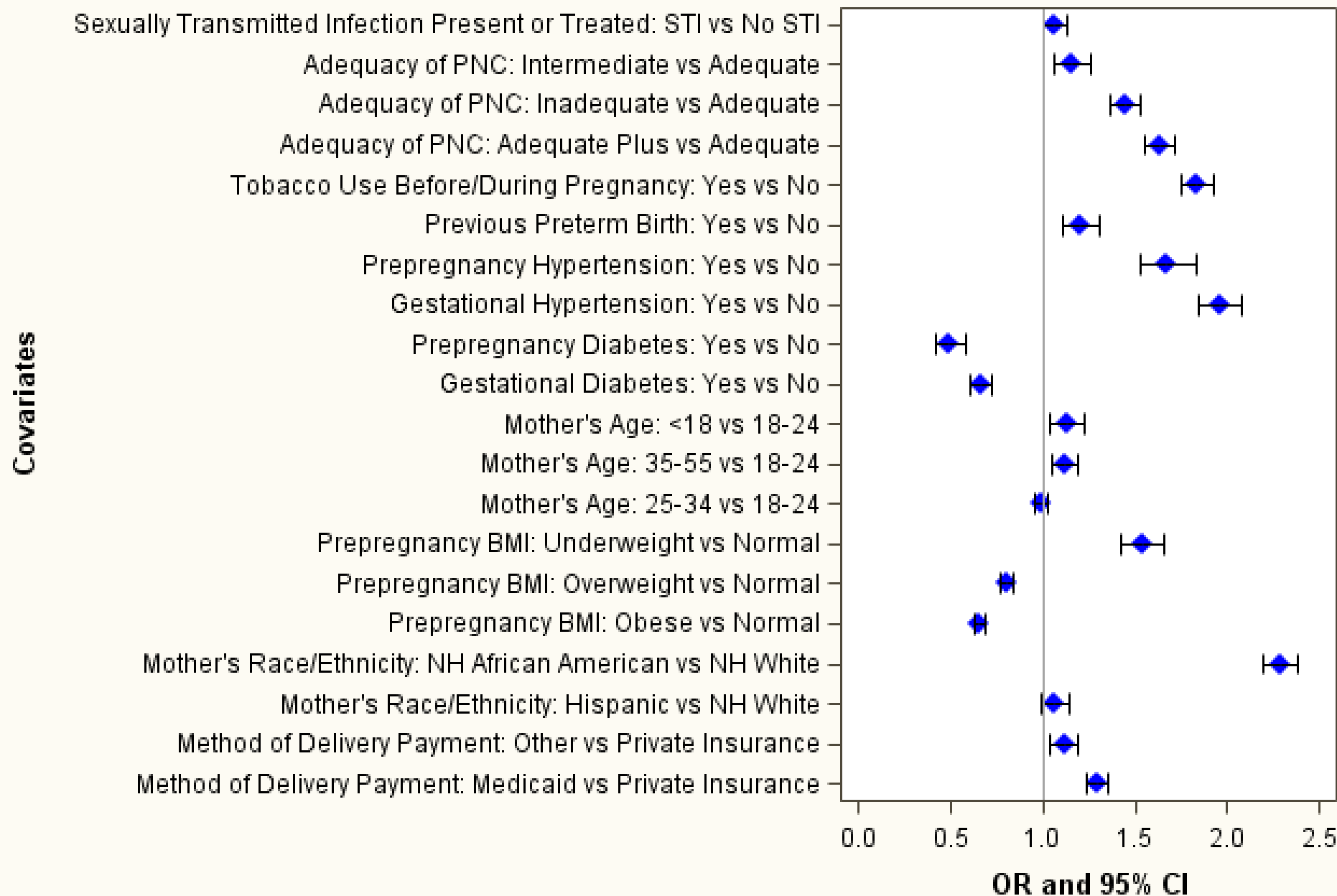
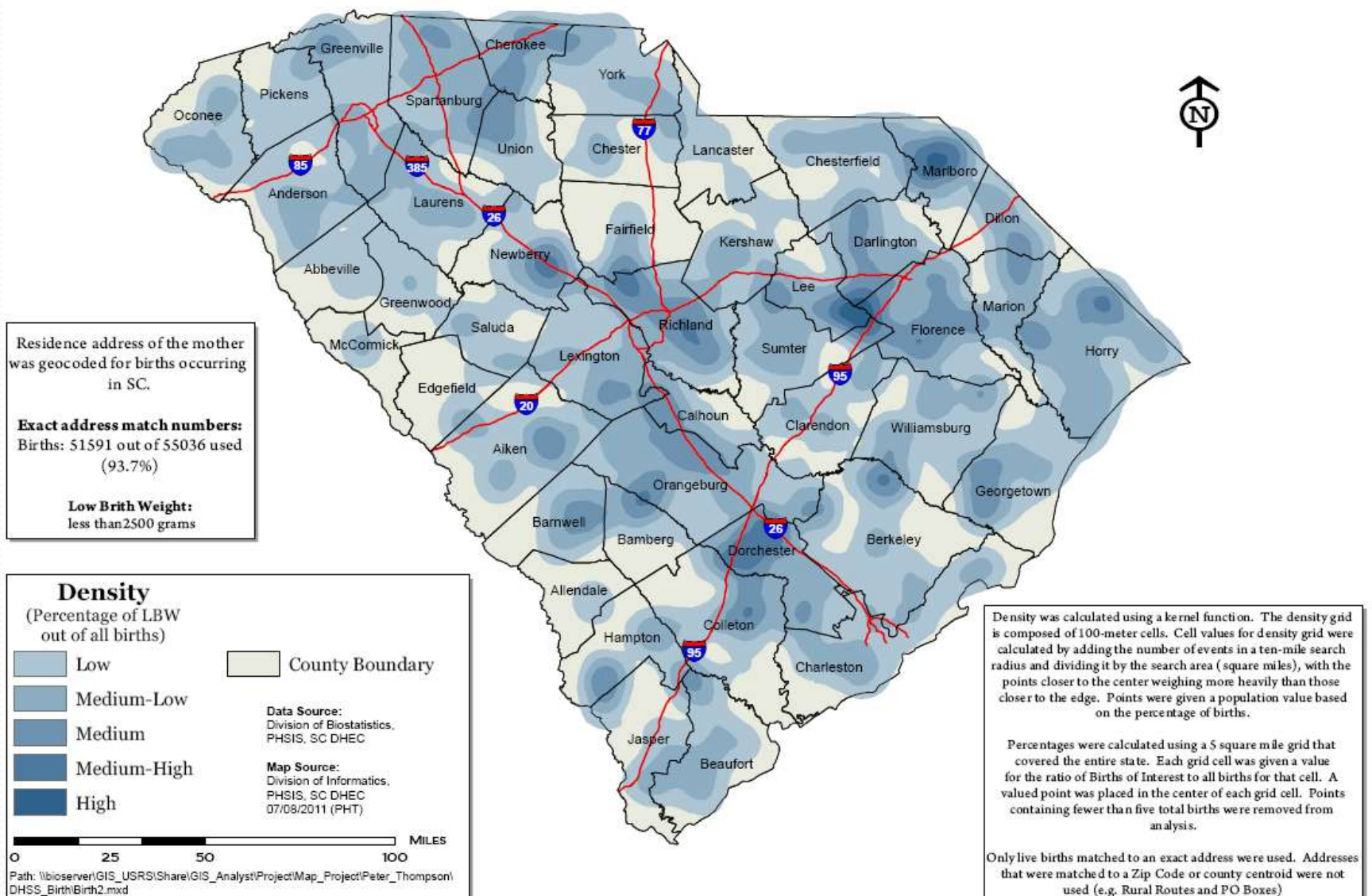


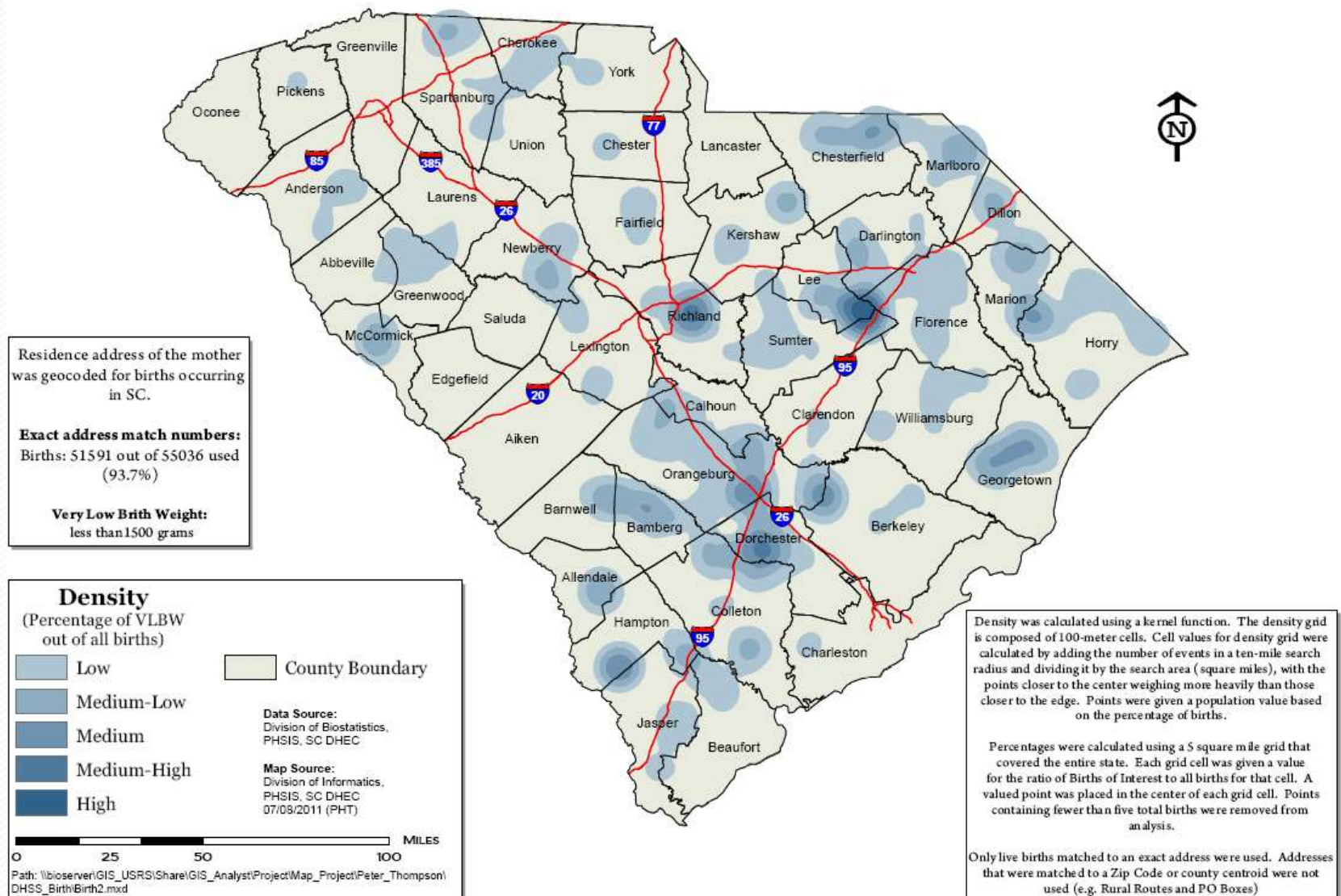
Figure 2a: Adjusted odds ratios and 95% confidence intervals comparing LBW deliveries to NBW deliveries. All races, 2005-2010 SC residents.



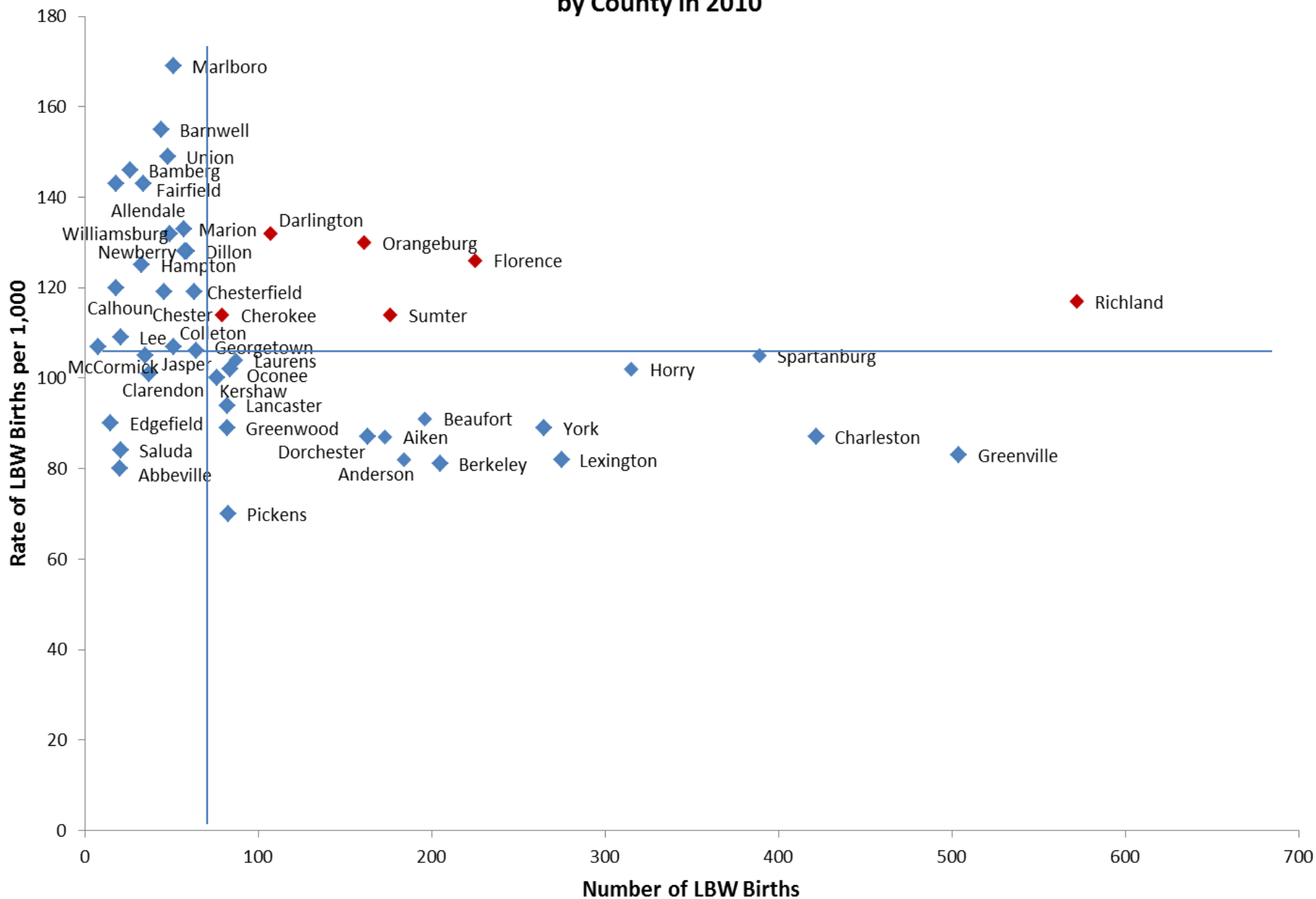
Percentage of births in SC resulting in LBW, 2010



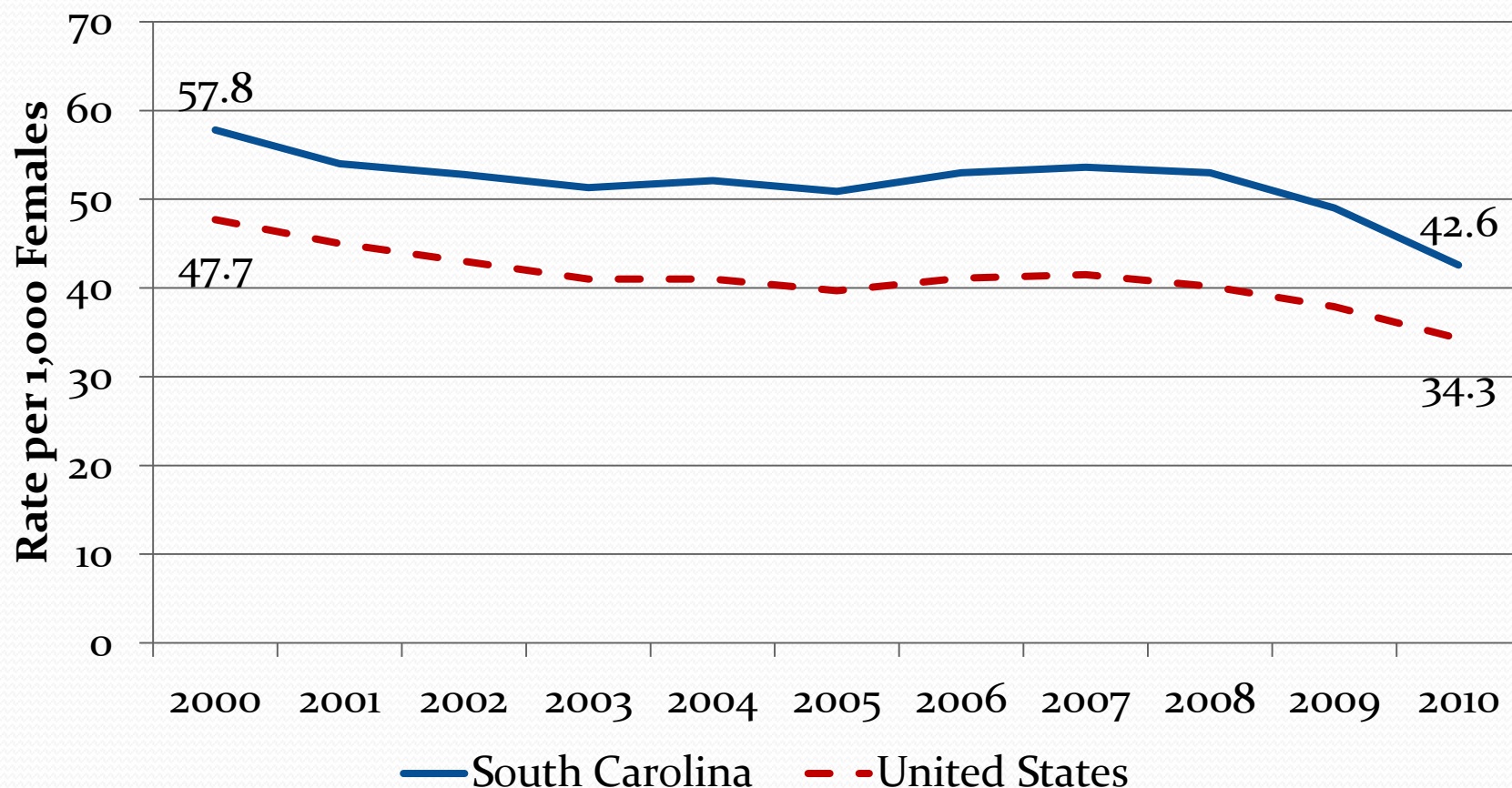
Percentage of births in SC resulting in VLBW, 2010



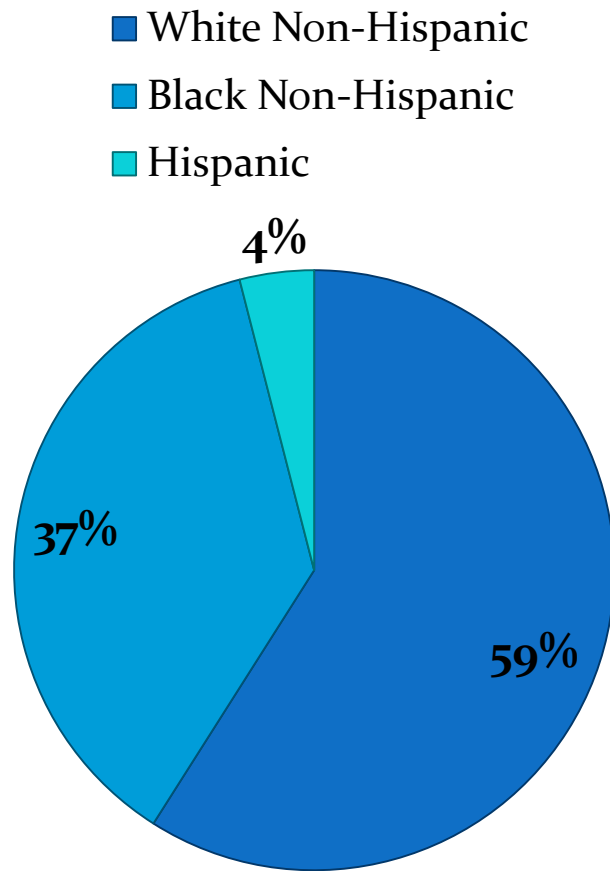
**South Carolina LBW Number and Rate (per 1,000 live births)
by County in 2010**



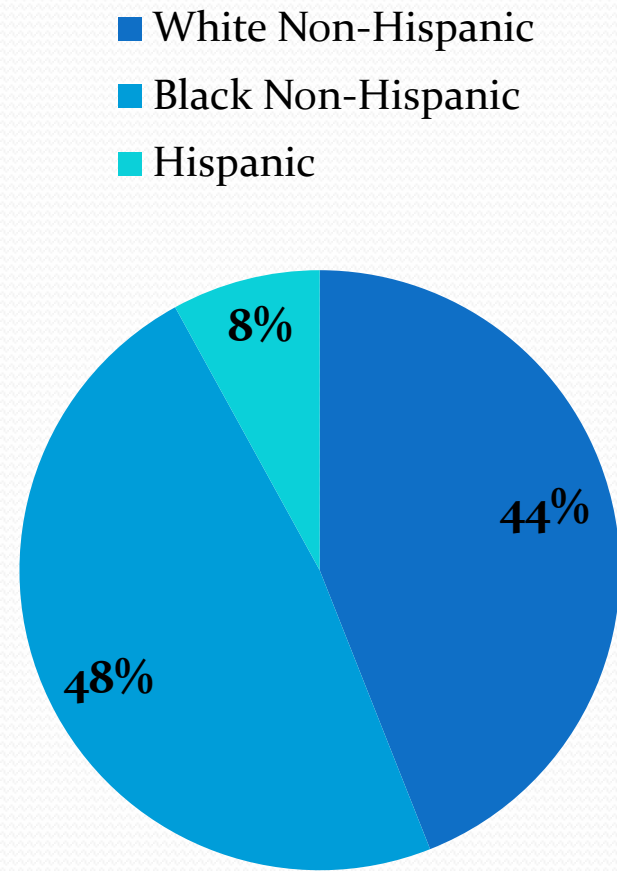
Teen birth rate females 15-19 years old, South Carolina and United States 2000-2009



SC percent population 15-19 year old females by race/ethnicity



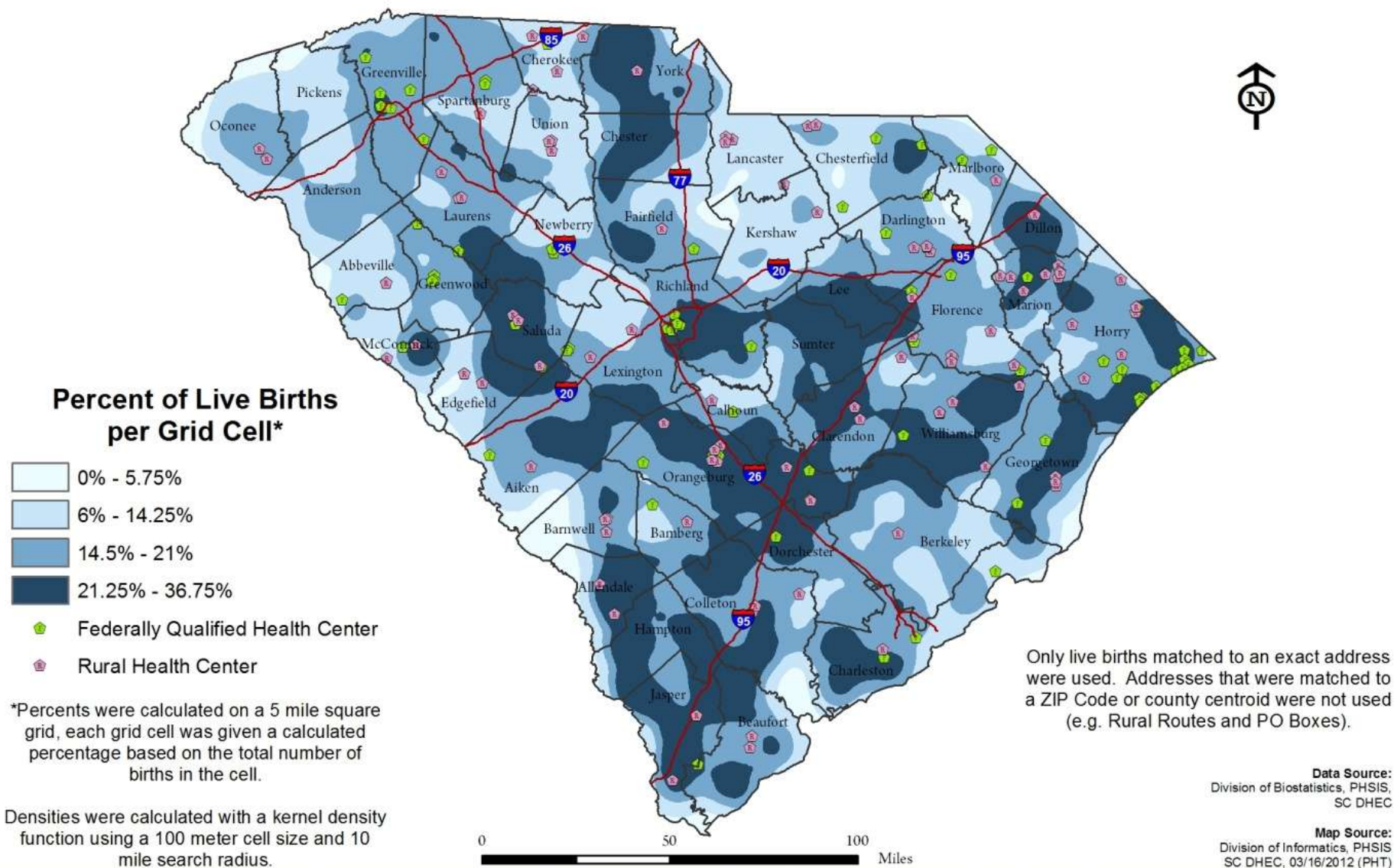
SC percent births to 15-19 year old females by race/ethnicity

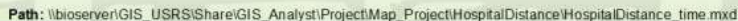


Adequacy of prenatal care utilization by mother's race/ethnicity, 2010 SC residents

Prenatal Care Utilization	Mother's Race/Ethnicity			χ^2 P-value
	White, Non-Hispanic	Black, Non-Hispanic	Hispanic	
Adequate Plus	47.8	46.2	29.0	<0.001
Adequate	33.0	23.5	25.8	
Intermediate	6.6	6.1	7.6	
Inadequate	12.6	24.2	37.6	
Total	100.0	100.0	100.0	

Percentage of Births with Inadequate Prenatal Care South Carolina 2008-2010





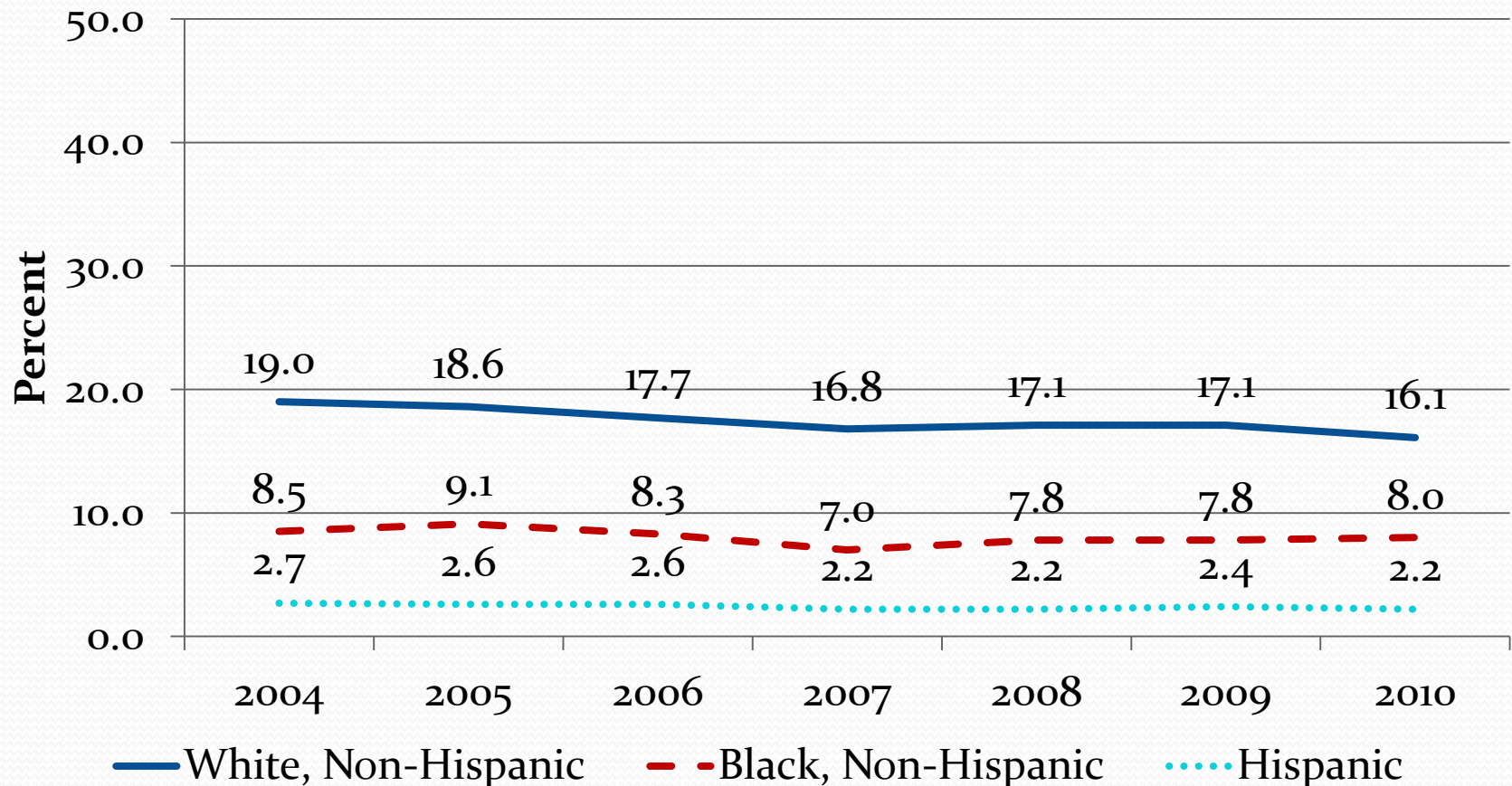
Map Source:
Division of Informatics,
PHSIS, SC DHEC
03/13/2012 (PHT)

Family planning

SC DHEC FAMILY PLANNING CASELOAD BY COUNTY

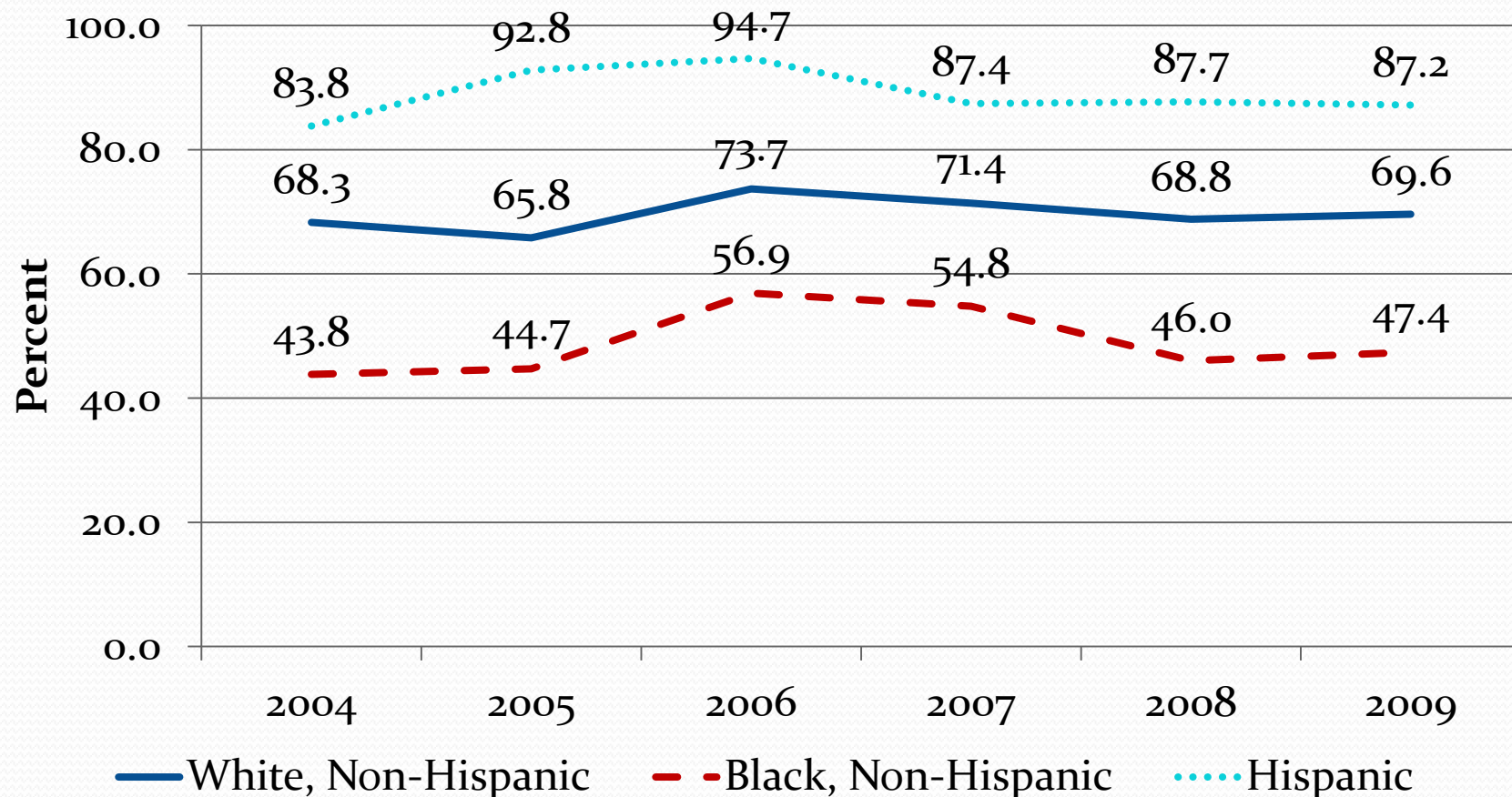
Year	2005	2006	2007	2008	2009	2010	2011	Percent Change
STATE TOTAL	102,369	97,987	94,916	92,374	99,136	92,860	90,252	-12 ⁰ %

Racial disparity in smoking during pregnancy, SC birth certificate data, 2004- 2010.



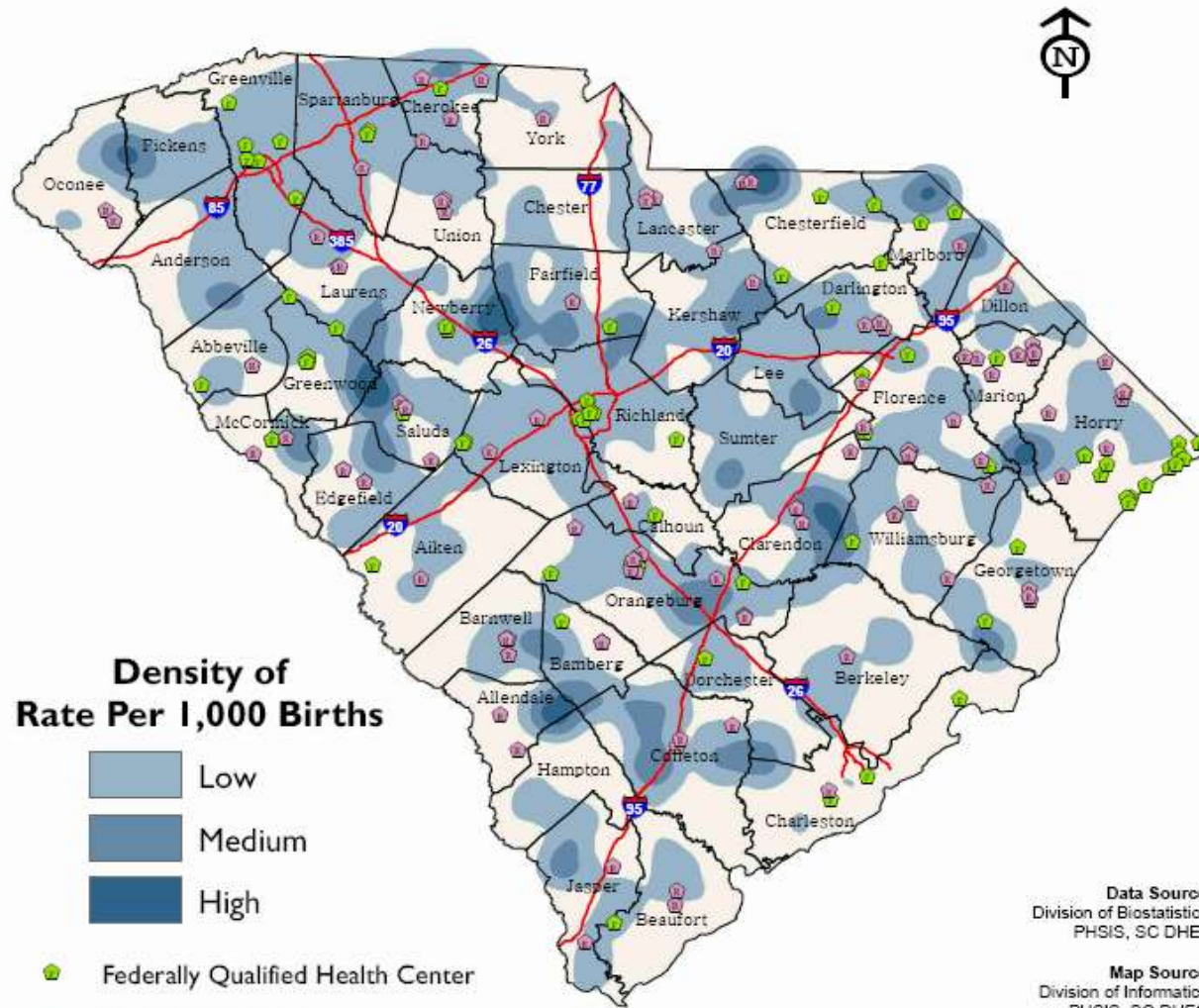
Racial disparity in rates of breastfeeding initiation

SC PRAMS data, 2004-2009.



Previous Pre-Term Birth Rate

South Carolina, 2007 - 2009

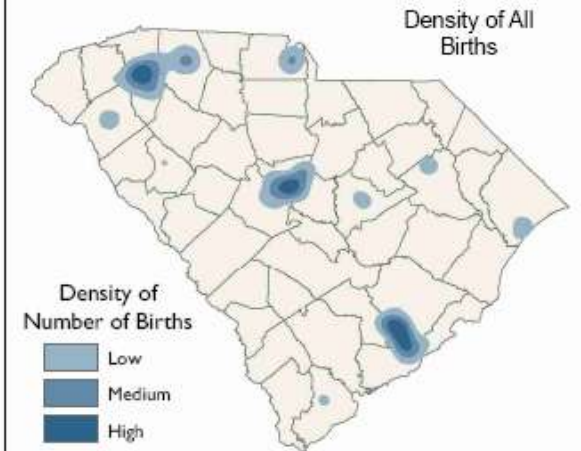


0 10 20 40 60 80 100 Miles

Path: \\bls0server\GIS_USRS\Share\GIS_Analyst\Project\Map_Project\Birth_Outcome_Int\Map\Birth_Outcome.mxd

Data Source:
 Division of Biostatistics,
 PHNIS, SC DHEC

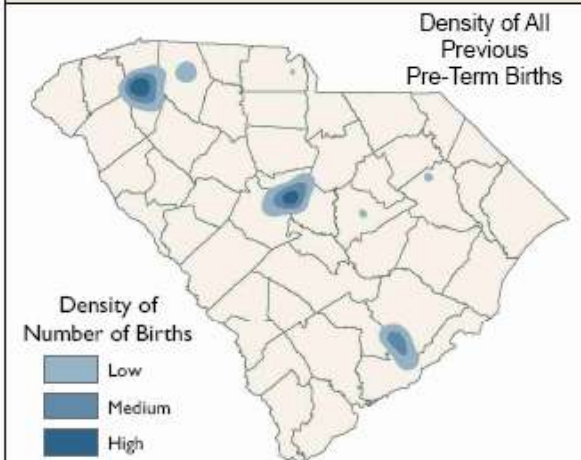
Map Source:
 Division of Informatics,
 PHNIS, SC DHEC,
 10/28/2011,
 (PHT)



Rates were calculated on a 5 mile square grid, each grid cell was given calculated the rate value.

Densities were calculated with a kernel density function using a 100 meter cell size and 10 mile search radius.

Only live births matched to an exact address were used. Addresses that were matched to a Zip Code or county centroid were not used (e.g. Rural Routes and PO Boxes)



Summary

Maternal
Characteristics

Geography

Teen
Pregnancy

Access to Care

Smoking and
Breastfeeding

17-H
Progesterone

Partners for Change

- DHEC Perinatal Regionalization
- Nurse-Family Partnership
- PASOs Program
- CenteringPregnancy
- BirthMatters
- SC Campaign to Prevent Teen Pregnancy
- PREP
- DHEC Family Planning
- Low Country Healthy Start
- Palmetto Healthy Start
- PeeDee Healthy Start
- Healthy Families America
- Loving Support Breastfeeding Peer Educators
- DHEC Natural Nutrition
- Text4Baby
- SC Quitline
- DHEC Birth Defects Surveillance
- DHEC Fetal and Infant Mortality Review
- DHEC Oral Health Coalition
- Smiling Stork



“Of all the forms of
inequality, injustice
in health care
is the most shocking
and inhumane.”

Martin Luther King, Jr.